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NEW RECORDS OF DIPTERA FROM THE REPUBLIC OF MORDOVIA, RUSSIA

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Summary. A list of 55 species of Diptera from families Tanypezidae (1 species), Megamerinidae (1), Acroceridae (1), Psilidae (5), Lonchaeidae (8), Strongylophthalmyiidae (1), Ephydriidae (21) Scathophagidae (17 species) collected in the Republic of Mordovia is given. Of them *Protearomyia withersi* MacGowan, 2014 and *Lonchaea baechlii* MacGowan, 2016 are recorded from Russia for the first time. Five species, namely *Megamerina dolium* Fabricius, 1805, *Lonchaea carpathica* Kovalev, 1974, *Ephydria scholtzi* Becker, 1896, *Strongylophthalmyia pictipes* Frey, 1935 and *Chamaepsila bicolor* (Meigen, 1826), are new for Central part of European Russia. The families Acroceridae, Megamerinidae, Psilidae, Tanypezidae and Strongylophthalmyiidae as well as 53 species are recorded from the Republic of Mordovia for the first time.

Key words: flies, Acroceridae, Ephydriidae, Lonchaeidae, Megamerinidae, Psilidae, Scathophagidae, Strongylophthalmyiidae, Tanypezidae, fauna, new records, Europe.

Й. Макгован, Н. Е. Вихрев, М. Г. Кривошеина, А. Б. Ручин, М. Н. Есин. Новые находки двукрылых насекомых (Diptera) в Республике Мордовия, Россия // Дальневосточный энтомолог. 2021. N 423. С. 9-20.

Резюме. Приведен список 55 видов двукрылых семейств Tanypezidae (1 вид), Megamerinidae (1), Acroceridae (1), Psilidae (5), Lonchaeidae (8), Strongylophthalmyiidae (1), Ephydriidae (21) и Scathophagidae (17 видов), собранных в Республике Мордовия. Из этих видов новыми для фауны России являются *Protearomyia withersi* MacGowan, 2014 и *Lonchaea baechlii* MacGowan, 2016. Впервые для центра европейской части России указываются 5 видов: *Megamerina dolium* Fabricius, 1805, *Lonchaea carpathica* Kovalev, 1974, *Ephydria scholtzi* Becker, 1896, *Strongylophthalmyia pictipes* Frey, 1935 и *Chamaepsila bicolor* (Meigen, 1826). Семейства Acroceridae, Megamerinidae, Psilidae Tanypezidae и Strongylophthalmyiidae, а также 53 вида впервые указываются для Мордовии.

INTRODUCTION

Diptera is a large order of insects, with at least 150,000 species known worldwide (Courtney *et al.*, 2009). Imagoes and larvae of Diptera are found in a wide variety of terrestrial and aquatic habitats, can live in the tissues of plants and animals, many larvae are coprophages, some larvae are saproxylous (Han & Choi, 2001; Della Bella *et al.*, 2005; Grichanov & Khruleva, 2018; Krivosheina & Krivosheina, 2019; Gornostaev & Sorokina, 2020; Tiunova & Makarchenko, 2020). The fly fauna of several regions of the European part of Russia has not been fully identified and catalogued.

For Republic of Mordovia fairly detailed lists of species were published only for families Asilidae (Astakhov *et al.*, 2019), Simuliidae (Budaeva & Ruchin, 2014), Bombyliidae (Chursina & Ruchin, 2018a), Syrphidae (Chursina & Ruchin, 2018b), Limoniidae, Pediciidae and Tipulidae (Pilipenko *et al.*, 2020; Dvorak *et al.*, 2020). The Mordovian fauna of other families of Diptera is still poorly studied.

MATERIAL AND METHODS

The material for this article was collected in 2019–2020 mainly on the territory of Mordovia State Nature Reserve. We used beer traps (Ruchin *et al.*, 2020) and nets for collecting.

For the general taxonomy and distribution of species the following literature sources were used: Soos (1974); Mathis & Zatwarnicki (1995); Buck & Marshall (2006); Shatalkin (2008); Nartshuk (2013); De Jong *et al.* (2014); MacGowan (2014); Ozerov & Krivosheina (2015, 2020); MacGowan & Bächli (2016); Roháček (2016); Ozerov (2019); Krivosheina & Ozerov (2020). Individual species distribution maps for the Lonchaeidae listed here are available at <http://lonchaeidae.myspecies.info/> (MacGowan, 2020). All specimens were identified by I. MacGowan, N.E. Vikhrev, M.G. Krivosheina, A.L. Ozerov and A.I. Shatalkin.

The following abbreviations are used: MSNR – Mordovia State Nature Reserve, distr. – district, spec. – specimen. The following abbreviations are used for collectors: AR – A.B. Ruchin, ME – M.N. Esin, KT – K.P. Tomkovich; NV – N.E. Vikhrev; GS – G.B. Semishin. New distributional records are marked with an asterisk: (*) – new from Russia; (**) – new from the central area of the European part of Russia.

The specimens listed here are deposited either in the Zoological Museum of Moscow University, Russia (those collected by NV and KT) or in the collection of MSNR (those from AR and ME). The specimens of Lonchaeidae are kept in the National Museum of Scotland, Edinburgh.

LIST OF THE SPECIES

Family Tanypezidae

Tanypeza longimana Fallen, 1820

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 spec., KT.

DISTRIBUTION. Russia (European part). – Holarctic.

Family Megamerinidae

***Megamerina dolium* Fabricius, 1805

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 spec., KT.

DISTRIBUTION. Russia (Northern European part, Caucasus, Siberia, Far East). – Europe.

Family Acroceridae

Ogcodes gibbosus Linnaeus, 1758

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Steklyanny (54.894°N, 43.601°E), 9–15.VII 2020, 1♂, KT.

DISTRIBUTION. Palaearctic, including North Africa.

Family Lonchaeidae

Protearomyia nigra (Meigen, 1826)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 299 (54.798°N, 43.145°E), 9–16.VII 2019, 1♂, AR; Rosstanie (54.825°N, 43.137°E), 10–19.VI 2019, 2–9.VII 2019, 2♂, AR.

DISTRIBUTION. Europe.

**Protearomyia withersi* MacGowan, 2014

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 427 (54.736°N, 43.220°E), 2–10.VI 2019, 1♂, AR; MSNR, quarter 408 (54.750°N, 43.200°E), 2–10.VI 2019, 1♂, AR.

DISTRIBUTION. Russia (first record). – Europe.

**Lonchaea baechlii* MacGowan, 2016

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 299 (54.798°N, 43.145°E), 19–25.VI 2019, 2–9.VII 2019, 2♂, AR; MSNR, quarter 275 (54.800°N, 43.160°E), 16–25.VII 2019, 1♂, AR; MSNR, quarter 427 (54.736°N, 43.220°E), 2–10.VI 2019, 1♂, AR.

DISTRIBUTION. Russia (first record). – Europe (Serbia).

***Lonchaea carpathica* Kovalev, 1974

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 302 (54.791°N, 43.178°E), 2–10.VI 2019, 47♂, AR; MSNR, quarter 408 (54.750°N, 43.200°E), 2–10.VI 2019, 10–19.VI 2019, 19–25.VI 2019, 25.VI–2.VII 2019, 2–9.VII 2019, 16–25.VII 2019, 9–16.VII 2019, 55♂, AR; MSNR, quarter 299 (54.798°N, 43.145°E), 19–25.VI 2019, 10–19.VI 2019, 25.VI–2.VII 2019, 2–9.VII 2019, 16–25.VII 2019, 9–16.VII 2019, 182♂, AR; MSNR, quarter 275 (54.800°N, 43.160°E), 10–19.VI 2019, 19–25.VI 2019, 25.VI–2.VII 2019, 2–9.VII 2019, 16–25.VII 2019, 49♂, AR.

DISTRIBUTION. Europe.

Lonchaea hackmani Kovalev, 1981

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 299 (54.798°N, 43.145°E), 2–9.VII 2019, 1♂, AR.

DISTRIBUTION. Northern and Central Europe.

Lonchaea limatula Collin, 1953

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 302 (54.791°N, 43.178°E), 2–10.VI 2019, 14♂, AR; MSNR, quarter 299 (54.798°N, 43.145°E), 19–25.VI 2019, 10–19.VI 2019, 2–9.VII 2019, 25.VI–2.VII 2019, 9–16.VII 2019, 16–25.

VII 2019, 74 ♂, AR; MSNR, quarter 275 (54.800°N, 43.160°E), 10–19.VI 2019, 19–25.VI 2019, 25.VI–2.VII 2019, 2–9.VII 2019, 16–25.VII 2019, 12 ♂, AR; MSNR, quarter 408 (54.750°N, 43.200°E), 10–19.VI 2019, 19–25.VI 2019, 2–9.VII 2019, 9–16.VII 2019, 5 ♂, AR; MSNR, quarter 330 (54.776°N, 43.183°E), 25.VI–2.VII 2019, 17 ♂, AR; MSNR, quarter 358 (54.761°N, 43.196°E), 9–16.VII 2019, 16–25.VII 2019, 2 ♂, AR; MSNR, quarter 384 (54.758°N, 43.215°E), 9–16.VII 2019, 1 ♂, AR.

DISTRIBUTION. Northern and Central Europe.

Lonchaea sylvatica Beling, 1873

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 299 (54.798°N, 43.145°E), 25.VI–2.VII 2019, 1 ♂, AR.

DISTRIBUTION. Europe.

Lonchaea xylophila Kovalev, 1978

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, quarter 299 (54.798°N, 43.145°E), 19–25.VI 2019, 1 ♂, AR.

DISTRIBUTION. Russia (Moscow region). – Sweden.

Family Psilidae

Psila fimetaria (Linnaeus, 1761)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Taratinsky (54.743°N, 43.092°E), 26–29.VI 2020, 1 ♀, KT.

DISTRIBUTION. Russia (European part). – Europe, Algeria, Iran (Khaghaninia & Gharajedaghi, 2014).

***Chamaepsila bicolor* (Meigen, 1826)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♂, KT.

DISTRIBUTION. Records for Europe only were published (Andorra, Austria, Great Britain, Czech Republic, Denmark, Germany, Ireland, Slovakia, Switzerland, and Italy).

Chamaepsila pallida (Fallén, 1820)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., Purdoshki (54.669°N, 43.542°E), 25.VI 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part). – Mongolia.

Chamaepsila rufa (Meigen, 1826)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♂, KT.

DISTRIBUTION. Forest zone of the Palearctic (eastwards to Amur region in Russia).

Loxocera fulviventris Meigen, 1826

MATERIAL. **Russia**: Republic of Mordovia, Ichalki distr., National Park «Smolny», Barakhmanovskoe forestry, quarter 63 (54.8331°N, 45.3796°E), 5.IX 2020, 1 ♀, GS.

DISTRIBUTION. Forest zone of the Palearctic (eastwards to Amur region in Russia).

Family Strongylophthalmyiidae

***Strongylophthalmyia pictipes* Frey, 1935

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe.

Family Ephydriidae

Psilopa nigritella Stenhammar, 1844

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 1–4.IX 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Far East). – Europe, Northern Africa, Uzbekistan, Kazakhstan, China.

Psilopa polita (Macquart, 1835)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Steklyanny (54.894°N, 43.601°E), 9–15.VII 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Northern Africa, Armenia, Georgia, Tajikistan, Kazakhstan, Korea, Japan.

NOTES. The record of this species from Mordovia (Plavilchikov, 1964) is confirmed by material examined.

Hydrellia griseola (Fallen, 1813)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 1–5.IX 2020, 1 ♂, NV; MSNR, cordon Steklyanny (54.894°N, 43.601°E), 9–15.VII 2020, 1 ♀, KT; Purdoshki env. (54.689°N, 43.533°E), 25.VI 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Cosmopolitan.

Hydrellia obscura (Meigen, 1830)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 1 ♂, NV; Purdoshki env. (54.689°N, 43.533°E), 25.VI 2020, 2 ♂, NV.

DISTRIBUTION. Russia (European part). – Europe, Northern Africa, Altai (Zatwarnicki, 1996).

Dichaeta caudata (Fallen, 1813)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.72°N, 43.23°E), 8–21.V 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Holarctic.

Notiphila brunipes (Robineau-Desvoidy, 1830)

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., Purdoshki env. (54.689°N, 43.533°E), 25.VI 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part). – Europe.

***Notiphila dorsata* Stanhammar, 1844**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., Purdoshki (54.689°N, 43.533°E), 25.VI 2020, 1 ♂, NV; MSNR, Pushta (54.71°N, 43.22°E), 1–4.IX 2020, 1 ♂, NV; Saransk env. (54.137°N, 44.907°E), 21.VI 2020, 2 ♂, NV.

DISTRIBUTION. Russia (European part, Caucasus, Ural, Far East). – Europe, Northern Africa, Armenia, China.

***Notiphila riparia* Meigen, 1830**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 2 ♂♂, NV; Saransk env. (54.137°N, 44.907°E), 21.VI 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Palaearctic.

***Ochthera mantis* (DeGeer, 1776)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 1–4.IX 2020, 1 ♂, NV; Mordovia, Temnilov distr., Purdoshki (54.669°N, 43.542°E), River Moksha, 25.VI 2020, 1 ♀, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Holarctic.

***Discocerina obscurella* (Fallen, 1813)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 1–4.IX 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Cosmopolitan.

***Hyadina rufipes* (Meigen, 1830)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 1–4.IX 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Far East). – Europe.

***Parydra aquila* (Fallen, 1813)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., Purdoshki (54.74°N, 43.67°E), Moksha bank, *Salix*, 27–29.VI 2020, 1 ♀, KT; Purdoshki (54.689°N, 43.533°E), 25.VI 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Holarctic.

***Coenia curvicauda* (Meigen, 1830)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, cordon Steklyanny (54.8961°N, 43.6057°E), 8–13.VII 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Holarctic.

***Coenia palustris* (Fallen, 1823)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.72°N, 43.23°E), 18–21.V 2020, 1 ♂, NV; MSNR, cordon Steklyanny (54.8961°N, 43.6057°E), 8–13.VII 2020, 1 ♀, KT.

DISTRIBUTION. Russia (European part). – Europe, Azerbaijan, Kazakhstan, China.

*****Ephydria scholtzi* Becker, 1896**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., Purdoshki (54.74°N, 43.67°E), Moksha bank, *Salix*, 27–29.VI 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Far East). – Europe.

***Paracoenia fumosa* (Stenhammar, 1844)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 3 ♂, 1 ♀, KT; MSNR, Pushta (54.72°N, 43.23°E), 18–21.V 2020, 1 ♂, 1 ♀, NV; MSNR, Lake Inorskoe (54.728°N, 43.15°E), 20.V 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Palaearctic.

***Setacera micans* (Haliday, 1833)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♂, 1 ♀, KT.

DISTRIBUTION. Russia (European part, Eastern Siberia: Irkutsk region; Far East). – Europe, Nearctic: Canada, USA (Alaska).

***Setacera trina* Collin, 1963**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♂, 1 ♀, KT.

DISTRIBUTION. Russia (European part). – Europe.

***Scatella obsoleta* Loew, 1861**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., Purdoshki (54.74°N, 43.67°E), Moksha bank, *Salix*, 27–29.VI 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Holarctic.

***Scatella paludum* (Meigen, 1830)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., Purdoshki (54.6894°N, 43.533°E), 25.VI 2020, 1 ♂, 1 ♀, NV; MSNR, Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 1 ♂, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Cosmopolitan.

***Scatella tenuicosta* Collin, 1930**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 1 ♂, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Cosmopolitan.

Family Scathophagidae

***Cleigastra apicalis* (Meigen, 1826)**

MATERIAL. **Russia:** Republic of Mordovia, Temnikov distr., Purdoshki (54.6694°N, 43.5416°E), 25.VI 2020, 1 ♀, ME.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe (widespread), Asia (Iraq, Mongolia).

***Cleigastra leucostoma* (Zetterstedt, 1846)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 1 ♀, NV; River Pushta (54.75°N, 43.20°E), 25.V 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe; North America.

***Cleigastra pilosa* (Zetterstedt, 1838)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., Purdoshki env. (54.698°N, 43.533°E), 25.VI 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Northern and Central Europe, Mongolia.

***Cordilura albilabris* (Fabricius, 1805)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia). – Europe, Azerbaijan.

***Cordilura albipes* (Fallén, 1819)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Iran, Mongolia, Japan.

***Cordilura atrata* (Zetterstedt, 1846)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Steklyanny (54.894°N, 43.601°E), 12–15.VII 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, North America.

***Cordilura impudica* (Rondani, 1867)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, Lake Inorskoe (54.728°N, 43.15°E), 20.V 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Kazakhstan.

***Cordilura picipes* (Meigen, 1826)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.75°N, 43.20°E), 21.V 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia). – Europe, Mongolia.

***Cordilura rufipes* (Meigen, 1826)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.72°N, 43.23°E), 18–21.V 2020, 2 ♂, NV; MSNR, River Pushta (54.71°N, 43.22°E), 8–12.VI 2020, 1 ♂, NV; MSNR, River Pushta (54.77090°N, 43.2133°E), 18.V 2020, 2 ♂, 1 ♀, ME.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Iran, Mongolia, China.

***Norellisoma spinimanum* (Fallén, 1819)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.72°N, 43.23°E), 18–21.V 2020, 1 ♀, NV; MSNR (54.7087°N, 43.2133°E), 10–13.VII 2020, 2 ♂, 2 ♀, ME.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Iran, Kazakhstan, Turkey, North America.

***Scathophaga furcata* (Say, 1823)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.72°N, 43.23°E), 18–21.V 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Asia, North America.

***Scathophaga inquinata* (Meigen, 1826)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♂, KT; MSNR (54.7482°N, 43.2010°E), 21.V 2020, 1 ♂, ME.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe.

***Scathophaga stercoraria* Linnaeus, 1758**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, Pushta (54.71°N, 43.22°E), 18–22.V 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Asia, North Africa, North America.

NOTES. The record of this species from Mordovia (Plavilchikov, 1964) is confirmed by material examined.

***Scathophaga spurca* (Meigen, 1826)**

MATERIAL. **Russia**: Republic of Mordovia, Zubova Polyana distr., Zubova Polyana (54.07°N, 43.86°E), 30.VIII 2020, 3 ♂, NV; Temnikov distr., Purdoshki env. (54.698°N, 43.533°E), 25.VI 2020, 2 ♂, NV; MSNR, River Pushta (54.72°N, 43.23°E), 18–21.V 2020, 1 ♂, NV; MSNR, cordon Taratinsky (54.743°N, 43.092°E), 27–29.VI 2020, 2 ♂, 2 ♀, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Asia, North America.

***Scatomyza scybalaria* Linnaeus, 1758**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., Purdoshki env. (54.689°N, 43.533°E), 6.IX 2020, 1 ♀, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Asia.

***Trichopalpus fraternus* (Meigen, 1826)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., Purdoshki env. (54.698°N, 43.533°E), 25.VI 2020, 2 ♂, NV; Saransk env. (54.137°N, 44.907°E), 21.VI 2020, 1 ♂, NV; MSNR, cordon Novenkovsky (54.931°N, 43.421°E), 4–7.VII 2020, 1 ♀, KT; MSNR, cordon Steklyanny (54.894°N, 43.601°E), 9–15.VII 2020, 1 ♂, KT.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe.

***Trichopalpus punctipes* (Meigen, 1826)**

MATERIAL. **Russia**: Republic of Mordovia, Temnikov distr., MSNR, River Pushta (54.71°N, 43.22°E), 22–24.VI 2020, 1 ♂, NV.

DISTRIBUTION. Russia (European part, Siberia, Far East). – Europe, Mongolia, North America.

DISCUSSION

A total of 55 Diptera species from eight families (Tanypezidae, Megamerinidae, Acroceridae, Psilidae, Lonchaeidae, Strongylophthalmyiidae, Ephydriidae, and Scathophagidae) collected in the Republic of Mordovia, Russia are listed. The families Tanypezidae, Megamerinidae, Acroceridae, Strongylophthalmyiidae, and Psilidae are listed for the first time for the region's fauna. New to the fauna of Russia are *Rotearomyia withersi* MacGowan, 2014 and *Lonchaea baechlii* MacGowan, 2016 (Lonchaeidae). *Megamerina dolium* Fabricius, 1805, *Lonchaea carpathica* Kovalev, 1974, *Ephydria scholtzi* Becker, 1896, *Strongylophthalmyia pictipes* Frey, 1935, and *Chamaepsila bicolor* (Meigen, 1826) recorded for the center of the European part of Russia for the first time. Most of the discovered species are fairly common and widespread. In the Lonchaeidae *Protearomyia withersi* is known from across Europe where it is mainly associated with wood pasture habitats. *Lonchaea baechlii* was previously only known from the single male (holotype) from Serbia, the larvae are probably saprophagous. *Lonchaea xylophila*, whose larvae are associated with decaying birch (*Betula* sp.), is only known outside Russia from Sweden. In the Ephydriidae, the recording of *Setacera trina*, previously only known in Russia from the Moscow region, is of interest, although the species has a fairly wide distribution in Europe (Bosnia and Herzegovina, Czech Republic, Germany, Great Britain, Italy, Poland, Slovakia). An unusual find is *Ephydria scholtzi*, whose larvae develop in salty water. This species is usually found in the coastal zone of the seas or in the waters of mineral springs.

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REFERENCES

Astakhov, D.M., Ruchin, A.B., Romadina, O.D. & Pristrem, I.M. 2019. To robber flies fauna (Diptera: Asilidae) of Mordovia, Russia. *Biodiversitas*, 20(4): 994–1005. DOI: <https://doi.org/10.13057/biodiv/d200409>

Budaeva, I.A. & Ruchin, A.B. 2014. To the fauna of blackflies (Diptera: Simuliidae) of the Republic of Mordovia (Russia). *Caucasian Entomological Bulletin*, 10(1): 155–159. [In Russian]

Buck, M. & Marshall, S.A. 2006. Revision of New World Loxocera (Diptera: Psilidae), with phylogenetic redefinition of Holarctic subgenera and species groups. *European Journal of Entomology*, 103: 193–219.

Chursina, M.A. & Ruchin, A.B. 2018a. A checklist of Bombyliidae (Diptera) from Mordovia, Russia and variation of wing shape in *Bombylius* species. *Biodiversitas*, 19(6): 2147–2156. DOI: <https://doi.org/10.13057/biodiv/d190622>

Chursina, M.A. & Ruchin, A.B. 2018b. A checklist of Syrphidae (Diptera) from Mordovia, Russia. *Halteres*, 9: 57–73. DOI: <https://doi.org/10.5281/zenodo.1255874>

Courtney, G.W., Pape, T., Skevington, J.H. & Sinclair, B.J. 2009. Biodiversity of Diptera. P. 185–222. In: Foottit, R.G. & Adler, P.H. (Eds.). *Insect Biodiversity: Science and Society*. Blackwell Publishing Ltd. DOI: <https://doi.org/10.1002/9781444308211.ch9>

De Jong, Y., Verbeek, M., Michelsen, V., Bjørn, P., Los, W., Steeman, F., Bailly, N., Basire, C., Chylarecki, P., Stloukal, E., Hagedorn, G., Wetzel, F., Glöckler, F., Kroupa, A., Korb, G., Hoffmann, A., Häuser, C., Kohlbecker, A., Müller, A., Güntsch, A., Stoev, P. & Penev, L. 2014. Fauna Europaea – all European animal species on the web. *Biodiversity Data Journal*, 2: e4034. DOI: <https://doi.org/10.3897/BDJ.2.e4034>

Della Bella, V., Bazzanti, M. & Chiarotti, F. 2005. Macroinvertebrate diversity and conservation status of Mediterranean ponds in Italy: water permanence and mesohabitat influence. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 15: 583–600.

Dvořák, L., Dvořáková, K., Oboňa, J. & Ruchin, A.B. 2020. Selected Diptera families caught with beer traps in the Republic of Mordovia (Russia). *Nature Conservation Research*, 5(4): 65–77. DOI: <https://doi.org/10.24189/ncr.2020.057>

Gornostaev, N.G. & Sorokina, S.Yu. 2020. An annotated list of the drosophilid flies (Diptera: Drosophilidae) of Khakassia. *Far Eastern Entomologist*, 401: 13–17. DOI: <https://doi.org/10.25221/fee.401.3>

Grichanov, I.Ya. & Khruleva, O.A. 2018. Fauna and ecology of Dolichopodidae (Diptera) from Wrangel Island Nature Reserve (Chukotka, Russia). *Nature Conservation Research*, 3(3): 37–45. DOI: <http://dx.doi.org/10.24189/ncr.2018.023>

Han, H.Y. & Choi, D.S. 2001. Diptera (Syrphidae). Economic Insects of Korea 15. *Insecta Koreana Supplement*, 22: 1–224.

Khaghaninia, S. & Gharajedaghi, Y. 2014. The first report of three genera and six species of rust flies (Diptera: Psilidae) from Iran. *Biharean Biologist*, 8(2): 102–105.

Krivosheina, N.P., & Krivosheina, M.G. 2019. Saproxylic Diptera (Insecta) of the Lazovsky State Nature Reserve (Russia). *Nature Conservation Research*, 4(3): 78–92. DOI: <http://dx.doi.org/10.24189/ncr.2019.052> [In Russian]

Krivosheina, M.G. & Ozerov, A.L. 2020. A review of the genus *Setacera* Cresson 1930 (Diptera, Ephydriidae) of Russia. *Zoologicheskiy Zhurnal*, 99(8): 900–910. [In Russian]

MacGowan, I. 2014. Three new species of *Protearomyia* McAlpine, 1962 (Diptera; Lonchaeidae) with a key to males of the Palaearctic species. *Zootaxa*, 3796: 337–348. DOI: <https://doi.org/10.11646/zootaxa.3796.2.6>

MacGowan, I. 2020. *Lonchaeidae online*. Available at: <http://lonchaeidae.myspecies.info> (accessed 1 October 2020).

MacGowan, I. & Bächli, G. 2016. New species of Lonchaeidae from Switzerland and Serbia with a revised checklist of the Swiss fauna. *Mitteilungen der Schweizerischen Entomologischen Gesellschaft*, 89: 169–176.

Mathis, W.N. & Zatwarnicki, T. 1995. *World Catalog of shore-flies (Diptera: Ephydriidae)*. Memoirs on Entomology. International. 4. Gainesville, Associated Publishers. Florida. 424 p.

Nartshuk, E.P. 2013. *Fauna Europaea: Acroceridae*. In: Beuk, P. & Pape, T.P. (2013) *Fauna Europaea: Diptera: Brachycera*. Fauna Europaea version 2017.06 Available at: <https://faunaeu.org>.

Ozerov, A.L. 2019. A review of the genus *Trichopalpus* Rondani, 1856 (Diptera: Scathophagidae) of Russia. *Russian Entomological Journal*, 28(4): 470–484. DOI: <https://doi.org/10.15298/rusentj.28.4.17>

Ozerov, A.L. & Krivosheina, M.G. 2015. A review of the genera *Cleigastra* Macquart, *Gonarcticus* Becker, *Gonatherus* Rondani, *Hexamitocera* Becker, *Nanna* Strobl, *Orthacheta* Becker and *Spathephilus* Becker (Diptera, Scathophagidae) of Russia. *Zootaxa*, 4012(2): 201–258. DOI: <https://doi.org/10.11646/zootaxa.4012.2.1>

Ozerov, A.L. & Krivosheina, M.G. 2020. A review of the genus *Norellisoma* Wahlgren, 1917 (Diptera: Scathophagidae) of Russia. *Russian Entomological Journal*, 29(1): 103–120. DOI: <https://doi.org/10.15298/rusentj.29.1.15>

Pilipenko, V.E., Ruchin, A.B. & Semishin, G.B. 2020. Cranefly fauna (Diptera: Limoniidae, Pediciidae, Tipulidae) of the Republic of Mordovia, Russia. *Biodiversitas*, 21(1): 355–369. DOI: <https://doi.org/10.13057/biodiv/d210143>

Plavilshchikov, N.N. 1964. A list of insect species found on the territory of the Mordovia State Nature Reserve. *Proceedings of the Mordovia State Nature Reserve*, 2: 105–134. [In Russian]

Roháček, J. 2016. Strongylophthalmyiidae, Tanypezidae and Megamerinidae (Diptera) in the Czech Republic and Slovakia: current state of knowledge. *Acta Musei Silesiae Scientiae Naturalis*, 65(1): 1–13. DOI: <https://doi.org/10.1515/cszma-2016-0001>

Ruchin, A.B., Egorov, L.V., Khapugin, A.A., Vikhrev, N.E. & Esin, M.N. 2020. The use of simple crown traps for the insects collection. *Nature Conservation Research*, 5(1): 87–108. DOI: <https://dx.doi.org/10.24189/ncr.2020.008>

Shatalkin, A.I. 2008. East Palaearctic and Oriental flies of the genus *Psila* Meigen (Psilidae). *Archives of the Zoological Museum of Moscow State University*, 49: 48–69. [In Russian]

Soós, Á. 1974. Taxonomische und faunistische Untersuchungen über die Psiliden (Diptera) aus der Mongolei. *Annales historico-naturales Musei nationalis hungarici*, 66: 241–250.

Tiunova, T.M. & Makarchenko, E.A. 2020. Chironomid community (Diptera: Chironomidae) of temporary stream of Southern Primorye, Russian Far East. *Far Eastern Entomologist*, 414: 1–10. DOI: <https://doi.org/10.25221/fee.414.1>

Zatwarnicki, T. 1996. New records of Western Palaearctic shore flies (Diptera, Ephydriidae). *Annals of the Upper Silesian Museum. Entomology*, 6–7: 107–125.

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